

**WRITE COMPENSATION FOR A MULTI-LEVEL DATA
STORAGE SYSTEM**

ABSTRACT OF THE DISCLOSURE

A system and method are disclosed for compensating during a data writing process for a transformation of input data by an optical disc data storage channel. A write strategy matrix is derived that maps a plurality of input sequences to a plurality of write strategy parameters. The input sequences each include a plurality of input data elements. When an input sequence is received, the write strategy matrix is used to determine a selected write strategy parameter that corresponds to the input sequence.

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